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1 [Field studies I: Ordering systems: coordinative practices in architectural design and planning](#)

Kjeld Schmidt

November 2003

Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work

 Full text available: pdf(759.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In their cooperative effort, architects depend critically on elaborate coordinative practices and artifacts. The paper presents, on the basis of an in-depth study of architectural work, an analysis of these practices and artifacts and shows that they are multilaterally interrelated and form complexes of interrelated practices and artifacts which we have dubbed 'ordering systems'. In doing so, the paper outlines a conceptual framework for investigating and conceiving of such practices.

Keywords: architectural work, classification, common information spaces, coordinative artifacts, indexation

2 [Data model for extensible support of explicit relationships in design databases](#)

Joan Peckham, Bonnie MacKellar, Michael Doherty

 April 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 2

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We describe the conceptual model of SORAC, a data modeling system developed at the University of Rhode Island. SORAC supports both semantic objects and relationships, and provides a tool for modeling databases needed for complex design domains. SORAC's set of built-in semantic relationships permits the schema designer to specify enforcement rules that maintain constraints on the object and relationship types. SORAC then automatically generates C++ code to maintain the specified enforcement rules ...

Keywords: computer-aided architectural design, database constraints, relationship semantics, semantic and object-oriented data modeling

3 [Toward a unified framework for version modeling in engineering databases](#)

Randy H. Katz

 December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4

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Wu, Y.-L.; Marek-Sadowska, M.;

Design Automation Conference, 1993, with EURO-VHDL '93. Proceedings EUR DAC '93. European , 20-24 Sept. 1993

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Henkel, J.; Ernst, R.;

System Synthesis, 1995., Proceedings of the Eighth International Symposium on , 13-15 Sept. 1995

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Ki-Il Kum; Wonyong Sung;

Computer-Aided Design of Integrated Circuits and Systems, IEEE Transaction on , Volume: 20 , Issue: 8 , Aug. 2001

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Gruian, F.; Kuchcinski, K.;



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1 New low-loss bend structures for high-density integrated optical sv arrays*Radcliffe, S.N.; Young, T.P.;*

Selected Areas in Communications, IEEE Journal on , Volume: 6 , Issue: 7 , A 1988

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Optoelectronics [see also IEE Proceedings-Optoelectronics], IEE Proceedings J , Volume: 139 , Issue: 4 , Aug. 1992

Pages:280 - 287

[\[Abstract\]](#) [\[PDF Full-Text \(636 KB\)\]](#) **IEE JNL****3 2000 IEEE MTT-S International Microwave Symposium Digest (Cat. No.00CH37017)**

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1 [Using VRML in construction industry applications](#)

Robert Lipman, Kent Reed

 February 2000 **Proceedings of the fifth symposium on Virtual reality modeling language (Web3D-VRML)**

Full text available: pdf(945.65 KB)

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This paper describes initial research using the Virtual Reality Modeling Language (VRML97) in construction industry applications. The modeling of steel structures and construction equipment as objects for inclusion in construction-site world models was studied. The ultimate goal is to provide three-dimensional web-based technologies for managing, accessing, and viewing construction project information.

Keywords: VRML, computer-integrated construction, construction equipment, steel structures, virtual environments

2 [Design integrity and immunity checking: A new look at layout verification and design rule checking](#)

Edward J. McGrath, Telle Whitney

 June 1980 **Proceedings of the 17th conference on Design automation**

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A program implementing a novel approach to layout verification is presented. The approach uses topological and device information to eliminate most false and unchecked errors. This technique, coupled with a hierarchical front end to eliminated redundant checks, is appropriate for layout verification of VLSI designs. Design rules appropriate for this technique, some usage rules in the context of structured design, and a discussion of the future of design rule checking are also presented.

3 [Interactive computer graphics at Ford Motor Company](#)

Frank W. Bliss

 July 1980 **ACM SIGGRAPH Computer Graphics , Proceedings of the 7th annual conference on Computer graphics and interactive techniques**, Volume 14 Issue 3

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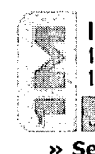
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Over the past fourteen years the Ford Motor Company actively pursued the development and use of interactive computer graphics in the design and manufacture of automobiles. The success of Ford's pioneering efforts in the area of minicomputer graphics led to widespread

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1 A new genetic algorithm for routing the shortest route via several designated points*Inagaki, J.; Haseyama, M.; Kitajima, H.;*

Circuits and Systems, 2001. ISCAS 2001. The 2001 IEEE International Symposium, Volume: 2, 6-9 May 2001

Pages:217 - 220 vol. 2

[Abstract] [PDF Full-Text (364 KB)] IEEE CNF

2 Which network design tool is right for you?*Bragg, A.W.;*

IT Professional, Volume: 2, Issue: 5, Sept.-Oct. 2000

Pages:23 - 32

[Abstract] [PDF Full-Text (2288 KB)] IEEE JNL

3 The TInMANN VLSI chip*Melton, M.; Phan, T.; Reeves, D.S.; Van den Bout, D.E.;*

Neural Networks, IEEE Transactions on, Volume: 3, Issue: 3, May 1992

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1 Computer-aided selection of components for technology-independence specifications*Parameswaran, S.; Schulz, M.F.;*

Computer-Aided Design of Integrated Circuits and Systems, IEEE Transaction on, Volume: 13, Issue: 11, Nov. 1994

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1 [Field studies I: Ordering systems: coordinative practices in architectural design and planning](#)

Kjeld Schmidt

November 2003

Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work

 Full text available: [pdf\(759.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In their cooperative effort, architects depend critically on elaborate coordinative practices and artifacts. The paper presents, on the basis of an in-depth study of architectural work, an analysis of these practices and artifacts and shows that they are multilaterally interrelated and form complexes of interrelated practices and artifacts which we have dubbed 'ordering systems'. In doing so, the paper outlines a conceptual framework for investigating and conceiving of such practices.

Keywords: architectural work, classification, common information spaces, coordinative artifacts, indexation

2 [Geometric programming: a programming approach to geometric design](#)

Alberto Paoluzzi, Valerio Pascucci, Michele Vicentino

July 1995 **ACM Transactions on Graphics (TOG)**, Volume 14 Issue 3
 Full text available: [pdf\(2.54 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article presents a functional programming approach to geometric design with embedded polyhedral complexes. Its main goals are to show the expressive power of the language as well as its usefulness for geometric design. The language, named PLASM (the Programming Language for Solid Modeling), introduces a very high level approach to "constructive" or "generative" modeling. Geometrical objects are generated by evaluating some suitable language expressions. Because ...

Keywords: design language, functional programming, generative modeling, geometric design, polyhedra, solid modeling, variational geometry

3 [Special issue on persistent object systems: Orthogonally persistent object systems](#)

Malcolm Atkinson, Ronald Morrison

July 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**,



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Relevance scale ☐ ☐ ☐ ☐ ☐**21 Highlights of CMU research on CAD, CAM and CAT of VLSI circuits**

John Paul Shen

November 1999 **Proceedings of 1986 fall joint computer conference on Fall joint computer conference**

Full text available: pdf(1.35 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)**22 The RADIANCE lighting simulation and rendering system**

Gregory J. Ward

July 1994 **Proceedings of the 21st annual conference on Computer graphics and interactive techniques**

Full text available: pdf(2.36 MB)

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This paper describes a physically-based rendering system tailored to the demands of lighting design and architecture. The simulation uses a light-backwards ray-tracing method with extensions to efficiently solve the rendering equation under most conditions. This includes specular, diffuse and directional-diffuse reflection and transmission in any combination to any level in any environment, including complicated, curved geometries. The simulation blends deterministic and stochastic ray-trac ...

Keywords: Monte Carlo, lighting simulation, physically-based rendering, radiosity, ray-tracing

23 Sharing and protection in a single-address-space operating system

Jeffrey S. Chase, Henry M. Levy, Michael J. Feeley, Edward D. Lazowska

November 1994 **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 4

Full text available: pdf(2.87 MB)

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This article explores memory sharing and protection support in Opal, a single-address-space operating system designed for wide-address (64-bit) architectures. Opal threads execute within protection domains in a single shared virtual address space. Sharing is simplified, because addresses are context independent. There is no loss of protection, because addressability and access are independent; the right to access a segment is determined by the protection domain in which a thread executes. T ...



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Ken Tumay

 December 1992 **Proceedings of the 24th conference on Winter simulation**

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2 [Geometric programming: a programming approach to geometric design](#)

Alberto Paoluzzi, Valerio Pascucci, Michele Vicentino

 July 1995 **ACM Transactions on Graphics (TOG)**, Volume 14 Issue 3

 Full text available: pdf(2.54 MB) [Additional Information: full citation, abstract, references, citings, index terms](#)

This article presents a functional programming approach to geometric design with embedded polyhedral complexes. Its main goals are to show the expressive power of the language as well as its usefulness for geometric design. The language, named PLASM (the Programming Language for Solid Modeling), introduces a very high level approach to "constructive" or "generative" modeling. Geometrical objects are generated by evaluating some suitable language expressions. Because ...

Keywords: design language, functional programming, generative modeling, geometric design, polyhedra, solid modeling, variational geometry

3 [Three-dimensional object recognition](#)

Paul J. Besl, Ramesh C. Jain

 March 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 1

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A general-purpose computer vision system must be capable of recognizing three-dimensional (3-D) objects. This paper proposes a precise definition of the 3-D object recognition problem, discusses basic concepts associated with this problem, and reviews the relevant literature. Because range images (or depth maps) are often used as sensor input instead of intensity images, techniques for obtaining, processing, and characterizing range data are also surveyed.

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